SECONDARY SCHOOLS ANNUAL EXAMINATIONS 2001

Educational Assessment Unit - Education Division

FORM 1	INTEGRATED SCIENCE	Time 1 hr 30 min		
	llowing signs on two chemical bottles. Fill in the ta	Classble with the following		
words to explain the	ir meaning.			
Poisonous,	explosive, flammable.			
Sign	Meaning of sign			
A				
(b) Write the names of the	following appearance	(3)		
(i)	(ii)	(iv)(4)		
Filtering, evapora	rds below the name of this experiment?			
	ratus you would use for this experiment?	(1)		
Evaporating dish,	Bunsen burner, beaker, filter paper, funnel, m	arker, tripod, water,		
scissors.		(5)		

		g that is the 'o ou chose this o		nderline the 'odd on	e out'.	
a)	sheep	cow	ectopus	horse	hen	
Reason:					 	(2
b)		giass		penguin		,
		frog		dog	parret	(2
Reason:					,	(2
(c)	dog	cat	pig	goldfish	horse	
Reason:	<u> </u>			-,·+ -		(2
			Answer the ques			(2
	at the follow	ing pictures.	Answer the ques	stions below.		(2
	at the follow					(2
	at the follow	ing pictures.	Answer the ques	stions below.		(2
	at the follow	ing pictures.	Answer the ques	stions below.		(2
(a) Look	at the follow	ing pictures.	Answer the ques	stions below.		(2

(b) 1	Inderline those thi	ngs that all living things i	nust do to stay a	live.	
1	Eat food, talk, s	wim, sleep, breathe, p	łay, walk, grov	w, lose waste materia	als. (4)
(c) ¹	Which of the follow	ving statements are true a	bout the woodla	use? Underline True	or False
(i) Its body is divi	ded into segments.	True	False	
(ii) It likes to live	in wet places.	True	False	
(iii) It prefers the li	ght.	True	False	
(iv) It lives under	water.	True	False	
(v) It likes the dan	ik.	True	False	(5)
4. (a) P	ut a circle round th	e two materials that disso	olve in water.		
		Chalk, salt,	sand, sug	ar.	(2)
(b) T	his apparatus is use	d to separate sand from	water.		
La	bel parts 1 and 2 or	the diagram.			(2)
	-			Υ .Υ	-
(c) W	hat substance is le	ft at X?			(1)
(d) W	That substance is co	llected at Y?			(1)
		ive stages in the water cy mber 1 has been done for		able by writing in nun	ibers to show
4	Water condenses	to form clouds			
	Water runs into th				
	Water falls as rain	· · · · · · · · · · · · · · · · · · ·			
	Water evaporates	from the sea	1		
	Water vapour rise	s in the air			

(b) Some ice cubes are placed in a glass of water. What happens to the temperature of the water after the ice cubes are placed in the glass	(1)
c) Ann wants to dissolve some sugar cubes in water as quickly as possible. Choose from the list below to suggest three things she should do.	
Crush, stir, cool, heat, freeze, melt, evaporate. (i)	
(iii)	(3)
he following are six forms of energy. ight, sound, electrical, stored, movement, heat. se some of these words to fill in the spaces below. I get my energy from food. When I paddle	
a bicycle, my energy is transferred to	
my body. energy and energy which heats up	
b) In a typical week you might eat 10 kg of food.	(3)
Explain why you are not 10 kg heavier at the end of the week.	
	(2)

(c) Write the starting energy and the finishing energy of the following:

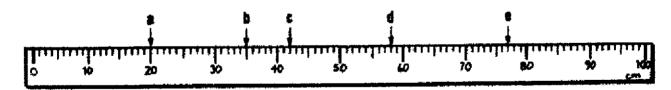
	starting energy	finishing energy
a pea is fired from a catapult		
a yoyo is moving up and down		
playing an electric guitar		
A boy kicking a ball		

(8)

7. (a) Name the instrument I need to use to measure the following:

- (i) The length of paper _____
- (ii) The temperature of water
- (iii) The volume of liquid in a cup
- (iv) The weight of a ball ______

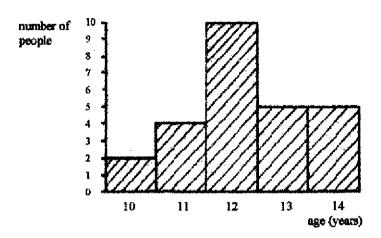
(b) What is the reading at each of the arrows a to e?



 $a = ___ b = ___ c = ___ d = ___ e = ___ (5)$

(c) Sue and Maria did a survey in their youth club.

This bar-chart shows the ages of the people in their club:

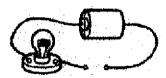


- (i) How many people are aged 12?
 (1)

 (ii) How old is the youngest person?
 (1)

 (iii) How many people are in the youth club?
 (2)

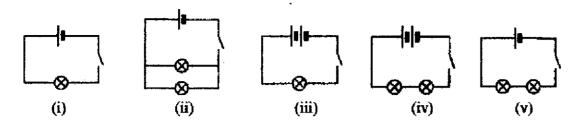
 (iv) Which is the most common age group?
 (1)
- 8 (a) Sara made this circuit to test which things conduct electricity.



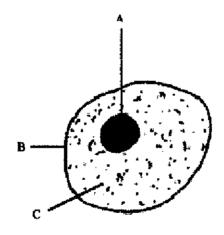
Choose the 4 things from this box that would complete Sara's circuit. Place a circle round your answer(s)

		 						
glass	copper	rubber	iron	wood	aluminium	steel	plastic	(8)

(b) Look at each of the circuits shown in the diagrams. Then answer the questions below.



- (i) In which circuit are the lamps in series? ______ (2)
- (ii) In which circuit are the lamps in parallel? ______ (1)
- (iii) In which circuit will the lamps be brightest? ______ (1)
- (iv) In which circuit will the lamps be dimmest? ______ (1)
- 9. Look at this picture of a cell.



- (i) Which line is pointing to the nucleus? ______ (1)
- (ii) Which line is pointing to the cytoplasm? ______ (1)
- (iii) Which line is pointing to the cell membrane? ______ (1)
- (iv) Is this a plant or an animal cell? _______(1)

(2)

(v) How do you know if it is a plant or an animal cell.